

Specifications

Interference Statement

Operations Manual

MAX-12 MONITOR

Display Color	Amber
Display Characters	80 characters with 25 lines (9 x 14 dots at 18.43KHz, monochrome, 8 x 8 dots at 15.7KHz 16 shades)
Video Signal Input	3.40V \pm 1.0V, positive
Dual Intensity	3.40V \pm 1.0V, positive (high intensity)
Horizontal Sync	TTL level, positive
Vertical Sync	TTL level, negative at 18.43KHz TTL level, positive at 15.7KHz
Sweep frequency	
Horizontal	18.43KHz-monochrome 15.7KHz-16 shades
Vertical	50Hz-monochrome 60Hz-16 shades
Active Display Area	210(W) x 158(H) mm
Resolution	
Horizontal	720 x 350-monochrome
Vertical	640 x 200-16 shades
Picture tube	12" diagonal, 90° deflection PC134 Phosphor
Controls	
Inside	V-Size, V-Lin., Sub-vert-Size, H-Phase, Sub-H-Hold, H-Size, H-Lin, Focus, Sub-Bri, Dynamic Focus
Outside	Front Panel: Brightness, Contrast, Power Rear: H-Hold, V-Hold
Input Terminal	9-Pin D Connector
Operating Ambient Temp.	0°C - 40°C
Power Supply	120V AC, 60Hz (Europe: 240V AC, 50Hz)
Power Consumption	40W (Max.)
Dimension	384(W) x 286(H) x 387(D) mm

FCC RF INTERFERENCE STATEMENT:

WARNING: This equipment has been certified to comply with the limits for a class B computing device. Pursuant to subpart J of part 15 of FCC rules. Only peripherals (computer input/output devices, terminals, printers, etc.) certified to comply with the class B limits may be attached to this computer. Operation with non-certified peripherals or without a shielded signal cable (included) is likely to result in interference to radio and TV reception.

This equipment generates and uses radio frequency energy and if not installed and used in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a class B computing device in accordance with the specifications in subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause an interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the computer with respect to the receiver.
- Move the computer away from the receiver.
- Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to identify and resolve radio-TV interference problem".

This booklet is available from the U.S. government printing office, Washington DC20402, stock no. 004-000-00343-4.

PRINCETON[®]
GRAPHIC SYSTEMS
AN INTELLIGENT SYSTEMS COMPANY

Operations Manual

Installation

Operation

CONGRATULATIONS

In selecting the PGS MAX-12, you have chosen the monitor that sets the industry standard for price/performance in a monochrome monitor.

The MAX-12, unlike many other amber monitors, runs off the IBM PC monochrome card — no special card is required. The MAX-12 gives three intensity levels when used with this card.

The MAX-12 will also run off the IBM color graphics card, bringing you 16 different shades of amber. The MAX-12's advanced circuitry differentiates between the signals coming from a 15.7KHz color card and an 18.43KHz monochrome card and automatically adapts to the correct frequency. The monitor also maintains a constant screen size from one mode to the other.

Your MAX-12 monitor is a precision instrument. Like all precision instruments, it requires proper care and installation. Please read this manual thoroughly before plugging your MAX-12 in or connecting it to your computer.

Before connecting your MAX-12 to your computer, make certain both the computer and the monitor are turned OFF. The monitor is turned off by pushing the pull-on switch on the front panel. (See "Location of controls" diagram.)

Make certain that you have the IBM PC monochrome control board, IBM Color Adapter Card or equivalent installed in your computer.

The power cable and the 9-pin signal cable are supplied and must be installed before operating your MAX-12.

Signal cable installation:

1. Plug one end of the 9-pin signal input cable (marked "4" in the diagram below) into the video input connector on the back of the monitor. Tighten the two screws on the cable connector securely.
2. Plug the other end of the signal input cable to the direct drive connector extending from the card on the back of the IBM PC. Tighten the two screws on the cable connector securely.

Power cable installation:

1. Connect the power cable (5) into the power connector on the back of the MAX-12 (see diagram below).
2. Connect the other end of the power cord to the video power outlet on the back of the IBM PC.

Your MAX-12 is now ready for operation.

After your MAX-12 is securely plugged in to your computer, turn your computer on and pull the power switch on the front panel. The pilot lamp should light, indicating that the power is on.

Adjusting contrast and brightness

1. Load a program and turn the contrast control on the front of the monitor up as high as it will go.
2. Turn the brightness control on the front panel clockwise until the background lines on the screen are clearly visible.
3. Turn the brightness control counterclockwise until the background lines just disappear.
4. Adjust the contrast control to give a pleasing level of text illumination.

Adjust the horizontal and vertical hold on the rear panel until the screen image is square and steady.

Avoid placing the MAX-12 in direct sunlight or excessive humidity. And never block the ventilating opening in the cabinet with cloth, paper or other material.

Monitor screens attract dust because of static electricity. An occasional wipe with a dry, lint-free cloth will keep your monitor's screen clean.

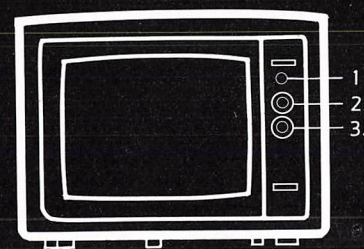
PGS has arranged for nationwide maintenance service on MAX-12 monitors. For a depot repair center in your area, call us at (609) 683-1660 or toll free at 800-221-1490.

THIRD PARTY MAINTENANCE

SAFETY PRECAUTIONS: READ CAREFULLY

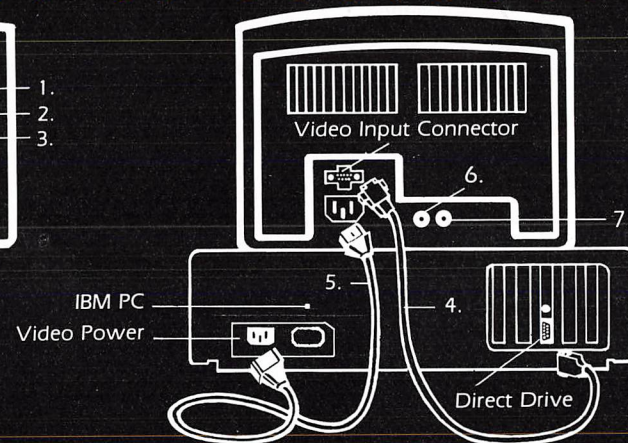
To reduce risk of fire or electric shock, do not expose this appliance to rain or excessive moisture. Avoid exposure to direct sunlight. Do not service except by a qualified serviceperson. This set is designed to operate from 120V 60Hz AC for North American users, or 240V 50Hz AC for European users. Examine rear label to make certain it is correctly matched to your power supply. Never connect to DC or power of any other voltage or frequency. Never block or cover ventilating opening with cloth or other material. Leaving the same image on the screen for an extended period of time may cause deterioration of the phosphor. This may be avoided by turning the monitor off when not in use or lowering the brightness level.

LOCATION OF CONTROLS



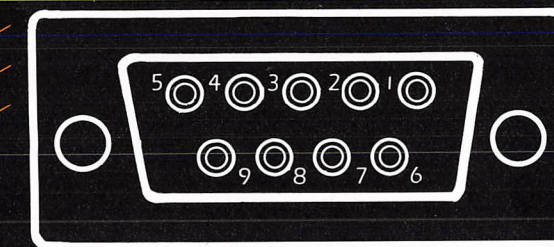
FRONT VIEW

1. Pilot Lamp
2. Pull on/Contrast
3. Brightness Control
4. Signal Input Cable
5. Power Input Cable
6. Vertical Hold
7. Horizontal Hold



REAR VIEW

SIGNAL CONNECTION



16 shades/15.7KHz mode

1. Ground
2. Ground
3. Shade 2
4. Shade 1 (MSB)
5. Shade 3 (LSB)
6. Intensity
7. No connection
8. Horz Sync (15.7KHz)
9. Vert Sync (positive)

3 Shades/18.43KHz mode

1. Ground
2. Ground
3. No connection
4. No connection
5. No connection
6. Intensity
7. Video
8. Horz Sync (18.43z)
9. Vert Sync (negative)